p1103: Expand Product of Linear Binomials (v7)

Question 1

Expand the product of linear binomials. $(x - 3)(x + 7)$

$$x^2 + 7x - 3x - 21$$

$$x^2 + 4x - 21$$

Question 2

Expand the product of linear binomials. $(x + 6)(x - 8)$

$$x^2 - 8x + 6x - 48$$

$$x^2 - 2x - 48$$

Question 3

Expand the product of linear binomials. $(x + 8)(x - 6)$

$$x^2 - 6x + 8x - 48$$

$$x^2 + 2x - 48$$

Question 4

Expand the product of linear binomials. $(8x - 3)(-4x + 8)$

$$-32x^2 + 64x + 12x - 24$$

$$-32x^2 + 76x - 24$$

Question 5

Expand the product of linear binomials. $(6x - 5)(4x + 6)$

$$24x^2 + 36x - 20x - 30$$

$$24x^2 + 16x - 30$$

Question 6

Expand the product of linear binomials. $(x + 6)(x + 8)$

$$x^2 + 8x + 6x + 48$$

$$x^2 + 14x + 48$$

Question 7

Expand the product of linear binomials. $(-x - 4)(9x - 3)$

$$-9x^2 + 3x - 36x + 12$$

$$-9x^2 - 33x + 12$$

Question 8

Expand the product of linear binomials. $(x + 5)(x - 8)$

$$x^2 - 8x + 5x - 40$$

$$x^2 - 3x - 40$$

Question 9

Expand the product of linear binomials. $(9x - 2)(5x + 8)$

$$45x^2 + 72x - 10x - 16$$

$$45x^2 + 62x - 16$$

Question 10

Expand the product of linear binomials. $(8x + 2)(-7x - 5)$

$$-56x^2 - 40x - 14x - 10$$

$$-56x^2 - 54x - 10$$